

Title (en)

INJECTABLE SUSPENSIONS HAVING IMPROVED INJECTABILITY PROPERTIES

Title (de)

INJIZIERBARE SUSPENSIONEN MIT VERBESSERTEN EINSPRITZUNGSEIGENSCHAFTEN

Title (fr)

SUSPENSIONS INJECTABLES AYANT LES CARACTERISTIQUES AMELIOREES DE L'INJECTABILITE

Publication

EP 1283699 B1 20070606 (EN)

Application

EP 01928628 A 20010419

Priority

- US 0112652 W 20010419
- US 57787500 A 20000525

Abstract (en)

[origin: WO0191720A2] Injectable compositions having improved injectability. The injectable compositions include microparticles in an aqueous injection vehicle having a viscosity of at least 20 cp at 20 DEG C. The increased viscosity of the injection vehicle that constitutes the fluid phase of the suspension significantly reduces <i>in vivo</i> injectability failures. The injectable compositions can be made by mixing dry microparticles with an aqueous injection vehicle to form a suspension, and then mixing the suspension with a viscosity enhancing agent to increase the viscosity of the fluid phase of the suspension to the desired level for improved injectability.

IPC 8 full level

A61K 9/02 (2006.01); **A61K 9/00** (2006.01); **A61K 9/10** (2006.01); **A61K 9/16** (2006.01); **A61K 9/50** (2006.01); **A61K 31/505** (2006.01); **A61K 31/522** (2006.01); **A61K 47/00** (2006.01); **A61K 47/02** (2006.01); **A61K 47/10** (2006.01); **A61K 47/12** (2006.01); **A61K 47/34** (2006.01); **A61K 47/36** (2006.01); **A61K 47/38** (2006.01); **A61K 47/42** (2006.01); **A61P 25/18** (2006.01); **A61K 47/26** (2006.01)

CPC (source: EP KR US)

A61K 9/0019 (2013.01 - EP US); **A61K 9/10** (2013.01 - KR); **A61K 9/1641** (2013.01 - EP US); **A61K 9/1647** (2013.01 - EP US); **A61K 9/1658** (2013.01 - EP US); **A61K 31/505** (2013.01 - EP US); **A61K 47/26** (2013.01 - EP US); **A61K 47/34** (2013.01 - US); **A61K 47/38** (2013.01 - EP US); **A61P 25/18** (2018.01 - EP)

Cited by

WO2016198351A1; US10322169B2; EP2269577B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated extension state (EPC)

AL LT LV MK RO SI

DOCDB simple family (publication)

WO 0191720 A2 20011206; WO 0191720 A3 20020523; AT E363891 T1 20070615; AU 2001255463 B2 20041104; AU 5546301 A 20011211; BG 107288 A 20030630; BG 66023 B1 20101130; BR 0111060 A 20030415; BR PI0111060 B1 20190416; BR PI0111060 B8 20210525; CA 2406536 A1 20011206; CA 2406536 C 20091222; CN 100453067 C 20090121; CN 1430501 A 20030716; CY 1107441 T1 20121219; CY 1117652 T1 20170517; CY 1117734 T1 20170517; CZ 20023848 A3 20030514; CZ 301359 B6 20100127; DE 60128798 D1 20070719; DE 60128798 T2 20071031; DK 1283699 T3 20071001; DK 1754469 T3 20160627; DK 2269577 T3 20160627; EP 1283699 A2 20030219; EP 1283699 B1 20070606; EP 1754469 A1 20070221; EP 1754469 B1 20160323; EP 2269577 A2 20110105; EP 2269577 A3 20111130; EP 2269577 B1 20160316; EP 3095442 A1 20161123; EP 3095442 B1 20201118; ES 2286118 T3 20071201; ES 2572877 T3 20160602; ES 2574823 T3 20160622; HK 1054319 A1 20031128; HK 1056321 A1 20040213; HK 1103346 A1 20071221; HK 1152660 A1 20120309; HU 228587 B1 20130429; HU P0302283 A2 20031028; HU P0302283 A3 20070228; IL 152767 A0 20030624; IL 152767 A 20081229; IS 2471 B 20081215; IS 6595 A 20021028; JP 2003534366 A 20031118; JP 4502355 B2 20100714; KR 100810480 B1 20080307; KR 20030020285 A 20030308; MX PA02011543 A 20040812; NO 20025164 D0 20021028; NO 20025164 L 20021125; NO 334660 B1 20140512; NZ 522335 A 20030829; PL 204298 B1 20091231; PL 365195 A1 20041227; PT 1283699 E 20070622; PT 2269577 E 20160614; RU 2002135641 A 20040720; SI 1754469 T1 20160930; SI 2269577 T1 20160930; US 2003113380 A1 20030619; US 2004208938 A1 20041021; US 2008044478 A1 20080221; US 2008044485 A1 20080221; US 2010303900 A1 20101202; US 2014193507 A1 20140710; US 6495164 B1 20021217; US 6667061 B2 20031223; US 7371406 B2 20080513; US 7799345 B2 20100921

DOCDB simple family (application)

US 0112652 W 20010419; AT 01928628 T 20010419; AU 2001255463 A 20010419; AU 5546301 A 20010419; BG 1072880 A 20021119; BR 0111060 A 20010419; CA 2406536 A 20010419; CN 01809967 A 20010419; CY 071101070 T 20070809; CY 161100509 T 20160610; CY 161100537 T 20160616; CZ 20023848 A 20010419; DE 60128798 T 20010419; DK 01928628 T 20010419; DK 06010734 T 20010419; DK 10174743 T 20010419; EP 01928628 A 20010419; EP 06010734 A 20010419; EP 10174743 A 20010419; EP 16161468 A 20010419; ES 01928628 T 20010419; ES 06010734 T 20010419; ES 10174743 T 20010419; HK 03105214 A 20030718; HK 03108656 A 20031127; HK 07107885 A 20030718; HK 11106882 A 20110705; HU P0302283 A 20010419; IL 15276701 A 20010419; IS 6595 A 20021028; JP 2001587736 A 20010419; KR 20027015892 A 20010419; MX PA02011543 A 20010419; NO 20025164 A 20021028; NZ 52233501 A 20010419; PL 36519501 A 20010419; PT 01928628 T 20010419; PT 10174743 T 20010419; RU 2002135641 A 20010419; SI 200131050 A 20010419; SI 200131051 A 20010419; US 201314085051 A 20131120; US 25994902 A 20020930; US 57787500 A 20000525; US 68114203 A 20031009; US 82699407 A 20070719; US 82699507 A 20070719; US 85619810 A 20100813